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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

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Application No: 10561583 Version No: 1.1

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SEQUENCE LISTING

<110> UMC Utrecht Holding B.V.
Van Wamel, Willem Jan Bastiaan
Rooijakkers, Suzan Huberdina Maria
Van Kessel, Cornelis Petrus Maria
Van Strijp, Johannes Antonius Gerardus

<120> Therapeutic use of LPI, a staphylococcal lectin pathway inhibitor
in inflammatory diseases

<130> L/2BD29/2

<140> 10561583
<141> 2005-12-19

<150> PCT/EP2004/007606
<151> 2004-08-07

<150> EP 03 077 138.0
<151> 2003-07-08

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<170> PatentIn version 3.2

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<223> Figure 2a, LPI gene of NCTC 8325

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gtactaatta ctaaggagaa taaaaaatga aaatttagaaa atctatactt gcgggaactt 120
tagcaatcgt tttagcatca ccactagtaa ctaatctaga taaaaatgag gcacaagcta 180
gcacaagctt gccaacatcg aatgaatatc aaaacgaaaa gttagctaat gaattaaaat 240
cgttattaga tgaactaaat gttaatgaat tagctactgg aagtttaaac acttattata 300
agcgaactat aaaaatttca ggtcaaaaag caatgtatgc tcttaagtca aaagacttta 360
agaaaatgtc agaagcaaaa tatcaacttc aaaagattta taacgaaatt gacgaagcac 420
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<223> Figure 2a, LPI gene of N315

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tagcaatcgt ttagcatca ccactagtaa ctaatctaga taaaaatgag gcacaagcta 180
gcacaagctt gccaacatcg aatgaatatc aaaacgaaaa gttagctaat gaattaaaat 240
cgttattaga tgaactaaat gttaatgaat tagctactgg aagtttaaac acttattata 300
agcgaactat aaaaatttca ggtctaaaag caatgtatgc tcttaagtca aaagacttta 360
agaaaaatgtc agaagcaaaa tatcaacttc aaaagattta taacgaaatt gacgaagcac 420
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<223> Figure 3, LPI protein of NCTC 8325

<400> 3

Met Lys Ile Arg Lys Ser Ile Leu Ala Gly Thr Leu Ala Ile Val Leu
1 5 10 15

Ala Ser Pro Leu Val Thr Asn Leu Asp Lys Asn Glu Ala Gln Ala Ser
20 25 30

Thr Ser Leu Pro Thr Ser Asn Glu Tyr Gln Asn Glu Lys Leu Ala Asn
35 40 45

Glu Leu Lys Ser Leu Leu Asp Glu Leu Asn Val Asn Glu Leu Ala Thr
50 55 60

Gly Ser Leu Asn Thr Tyr Tyr Lys Arg Thr Ile Lys Ile Ser Gly Gln
65 70 75 80

Lys Ala Met Tyr Ala Leu Lys Ser Lys Asp Phe Lys Lys Met Ser Glu
85 90 95

Ala Lys Tyr Gln Leu Gln Lys Ile Tyr Asn Glu Ile Asp Glu Ala Leu
100 105 110

Lys Ser Lys Tyr
115

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<223> Figure 3, LPI protein of N315

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Met Lys Ile Arg Lys Ser Ile Leu Ala Gly Thr Leu Ala Ile Val Leu
1 5 10 15

Ala Ser Pro Leu Val Thr Asn Leu Asp Lys Asn Glu Ala Gln Ala Ser
20 25 30

Thr Ser Leu Pro Thr Ser Asn Glu Tyr Gln Asn Glu Lys Leu Ala Asn
35 40 45

Glu Leu Lys Ser Leu Leu Asp Glu Leu Asn Val Asn Glu Leu Ala Thr
50 55 60

Gly Ser Leu Asn Thr Tyr Tyr Lys Arg Thr Ile Lys Ile Ser Gly Leu
65 70 75 80

Lys Ala Met Tyr Ala Leu Lys Ser Lys Asp Phe Lys Lys Met Ser Glu
85 90 95

Ala Lys Tyr Gln Leu Gln Lys Ile Tyr Asn Glu Ile Asp Glu Ala Leu
100 105 110

Lys Ser Lys Tyr

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<223> Figure 3, LPI-B

<400> 5

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20 25 30

Ser Leu Asp Lys Tyr Leu Thr Glu Ser Gln Phe His Asp Lys Arg Ile
35 40 45

Ala Glu Glu Leu Arg Thr Leu Leu Asn Lys Ser Asn Val Tyr Ala Leu
50 55 60

Ala Ala Gly Ser Leu Asn Pro Tyr Tyr Lys Arg Thr Ile Met Met Asn
65 70 75 80

Glu Tyr Arg Ala Lys Ala Ala Leu Lys Lys Asn Asp Phe Val Ser Met
85 90 95

Ala Asp Ala Lys Val Ala Leu Glu Lys Ile Tyr Lys Glu Ile Asp Glu
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Ile Ile Asn Arg
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Ser Thr Thr Ala Val Ser Thr Leu Asp Gly Asn Lys Ala Asp Ala Ser
20 25 30

Ser Lys Lys Asp Tyr Ile Ile Gln Ser Glu Phe His Asp Lys Arg Ile
35 40 45

Ala Glu Glu Leu Lys Ser Leu Leu Asp Gln Ser Tyr Val Asn Asp Leu
50 55 60

Ala Ala Gly Ser Leu Asn Pro Tyr Tyr Lys Arg Met Ile Met Met Asn
65 70 75 80

Gln Tyr Arg Ala Lys Ala Ala Leu Lys Ser Asn Asn Phe Ala Lys Met
85 90 95

Ala Glu Ala Lys Val Gly Leu Glu Asn Ile Tyr Lys Glu Ile Asp Glu
100 105 110

Ile Ile Asn Arg
115

<210> 7
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<223> Figure 3, LPI-D protein of NCTC 8325

<400> 7

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Ala Ala Leu Leu Asp Thr Thr Gly Ile Lys Leu Ala Ser Lys Ser Glu
20 25 30

Thr Thr Ser His Thr Tyr Gln His Gln Ala Leu Val Asp Gln Leu His
35 40 45

Glu Leu Ile Ala Asn Thr Asp Leu Asn Lys Leu Ser Tyr Leu Asn Leu
50 55 60

Asp Ala Phe Gln Lys Arg Asp Ile Leu Ala Ala His Tyr Ile Ala Lys
65 70 75 80

Ser Ala Ile Arg Thr Lys Asn Leu Asp Gln Met Thr Lys Ala Lys Gln
85 90 95

Arg Leu Glu Ser Ile Tyr Asn Ser Ile Ser Asn Pro Leu His Ser Gln
100 105 110

Asn Asn

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<213> Staphylococcus aureus

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<223> Figure 3, LPI-D protein of N315

<400> 8

Met Thr Thr Gln Met Lys Ile Lys Thr Tyr Leu Val Ala Gly Ile Lys
1 5 10 15

Ala Ala Leu Leu Asp Thr Thr Gly Ile Lys Leu Ala Ser Lys Ser Glu
20 25 30

Thr Thr Ser His Thr Tyr Gln His Gln Ala Leu Val Asp Gln Leu His
35 40 45

Glu Leu Ile Ala Asn Thr Asp Leu Asn Lys Leu Ser Tyr Leu Asn Leu
50 55 60

Asp Ala Phe Gln Lys Arg Asp Ile Leu Ala Ala His Tyr Ile Ala Lys
65 70 75 80

Ser Ala Ile Arg Thr Lys Asn Leu Asp Gln Met Thr Lys Ala Lys His
85 90 95

Arg Leu Glu Ser Ile Tyr Asp Ser Ile Ser Asn Pro Leu His Ser Gln
100 105 110

Asn Asn

<210> 9
<211> 364
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<213> *Staphylococcus aureus*

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<221> misc_feature
<223> Figure 2b, LPI-B gene

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tatthaactg aaagttagtt tcatgataaa cgcatacgag aagaattaag aactttactt 180
aacaatcga atgtatatgc attagctgca ggaagcttaa atccatatta taaacgtacg 240
attatgatga atgaatatacg agctaaagcg gcacttaaga aaaatgattt cgtatcaatg 300
gctgatgcta aagttgcatt agaaaaata tacaaagaaa ttgatgaaat tataaataga 360
taat 364

<210> 10
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<212> DNA
<213> *Staphylococcus aureus*

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<221> misc_feature
<223> Figure 2b, LPI-C gene

<400> 10
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tcaacaacag cagttatcaac gttagatggg aataaagcag atgcaagtag taagaaagac 120
tatataattc aaagttagtt tcatgataaa cgaatttgctg aagaattgaa atcattactt 180
gatcaatctt atgtaaatga tttagctgca ggaagcttaa acccatacta caaacgtatg 240
attatgatga accaatatacg agcaaaagca gcactaaaaa gtaataattt cgcaaaaatg 300
gctgaagcta aagttggatt agaaaacatt tacaaagaaa ttgatgaaat tataaataga 360

taat

364

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<221> misc_feature
<223> Figure 2b, LPI-D gene of NCTC 8325

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agcggcgctc cttgatacga ctggattaa attagcaagc aaatctgaaa ctacatcaca 120
tacgtatcaa catcaagcgc ttgttagatca attacatgaa ttaatagcaa acactgactt 180
aaataaaatta tcgtacctaa atttagatgc gtttcaaaaa cgcgatattt tagctgcgca 240
ctatattgca aaatccgcta tacgcactaa aaatttggat caaatgacta aagcgaaaca 300
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attca 365

<210> 12
<211> 365
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<221> misc_feature
<223> Figure 2b, LPI-D gene of N315

<400> 12
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agcggcgctc cttgatacga ctggattaa attagcaagc aaatctgaaa ctacatcaca 120
tacgtatcaa catcaagcgc ttgttagatca attacatgaa ttaatagcaa acactgactt 180
aaataaaatta tcgtacctaa atttagatgc gtttcaaaaa cgcgatattt tagctgcgca 240
ctatattgca aaatccgcta tacgcactaa aaatttggat caaatgacta aagcgaaaca 300
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attca 365

<210> 13
<211> 15

<212> DNA
<213> Artificial

<220>
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<400> 13
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<210> 14
<211> 15
<212> DNA
<213> Artificial

<220>
<223> pRSET-B vector enterokinase recognition site mutated

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<211> 22
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<213> Artificial

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<400> 15
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<210> 16
<211> 30
<212> DNA
<213> Artificial

<220>
<223> primer LPI-3'

<400> 16
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<211> 29
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<220>
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<213> Artificial

<220>
<223> primer LPI-C-5'

<400> 19
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<210> 20
<211> 27
<212> DNA
<213> Artificial

<220>
<223> primer LPI-C-3'

<400> 20
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